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avives@orange.es

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Ustjuzhanin, P. Ya.; Kovtunovich, V. N.

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## First data on Pterophoridae of Cambodia (Lepidoptera: Pterophoridae)

P. Ya. Ustjuzhanin & V. N. Kovtunovich

### Abstract

We give first data on Pterophoridae of Cambodia. In previous publications, there was no indication of their habitat in Cambodia. Now we present 15 Pterophoridae species of 11 genera.

KEY WORDS: Lepidoptera, Pterophoridae, distribution, new data, Cambodia.

### Primeros datos sobre Pterophoridae de Camboya (Lepidoptera: Pterophoridae)

### Resumen

Damos los primeros datos sobre Pterophoridae de Camboya. En publicaciones previas, no se había indicado su hábitat en Camboya. Ahora presentamos 15 especies de Pterophoridae de 11 géneros.

PALABRAS CLAVE: Lepidoptera, Pterophoridae, distribución, nuevos datos, Camboya.

### Introduction

Cambodia is located in south-eastern Asia, in the south of the Indochinese Peninsula. It borders with Vietnam in the East, Laos in the North-East, and Thailand in the North and North-West. Cambodia is mostly a flat country. A characteristic feature of the landscape of the country are isolated hills - "phnoms", towering over the plain at 600-700 m. Most of the country is covered by tropical rainforests.

Until the present, the plume moths fauna of Cambodia, has never been mentioned in the scientific literature. The materials obtained from Russian colleagues Sergei Murzin (Moscow) and Oleg Kosterin (Novosibirsk), gave rise to the writing of our work.

The Pterophoridae fauna of Cambodia is similar to that of Thailand and Vietnam. 34 species of plume moths were given for Thailand (YANO, 1961; ARENBERGER, 2010; KOVTUNOVICH & USTJUZHANIN, 2006), 26 species - for Vietnam (GIELIS, 2003; USTJUZHANIN & KOVTUNOVICH, 2009; 2010; 2015). But 4 species discovered in Cambodia, *Xyropilia oksana* Kovtunovich & Ustjuzhanin, 2006, *Exelastis pumilio* (Zeller, 1873), *Exelastis atomosa* (Walsingham, 1885), *Parafuscoptilia tabuliformis* Hao & Li, 2005, have not been found in these countries yet.

As a result of our examination of material on plume moths of Cambodia, we have indicated 15 species. All of them are marked as new for the fauna of the country. Thus, there is no doubt that further research in Pterophoridae of this region will be supplemented with many other new species not known for Cambodia.

### Material and methods

We have examined over 300 plume moths specimens from Cambodia. For determination of

specimens collected by our colleagues we used modern publications (ARENBERGER, 1995; 2002; 2010). In difficult cases of species identification, we compared the material with the collection funds of Pterophoridae in The Natural History Museum (UK, London). The examined material is deposited in the private collection of Ustjuzhanin and Kovtunovich.

## Taxonomy

### *Platyptilia* sp.

Material: 1 ♂, Phnom-Bokor Natural Resources, 10° 38'N, 104° 05'E, h-550 m, 25-XI / 6-XII-1999, M. & S. Murzin; 1 ♀, Phnom-Bokor Natural Resources, 10° 38'N, 104° 05'E, h-400 m, 24 /31-X-2007, S. Murzin; 1 ♂, Koh-Kong Prov., Tatui village, 23-V-2013, O. Kosterin.

Notes: It will be possible to determine this species when extra material is available.

### *Xyroptilia oksana* Kovtunovich & Ustjuzhanin, 2006

*Xyroptilia oksana* Kovtunovich & Ustjuzhanin, 2006: 259. (Type locality: Java, Indonesia)

Material: 1 ♂, Rattanakiri Prov., Bang Lung, 13° 44'N, 107° 02'E, h-350 m, 5 / 6-VI-2013, O. Kosterin.

Distribution: Indonesia (Java), India, Sri Lanka, Cambodia.

### *Nippoptilia cinctipedalis* (Walker, 1864)

*Oxyptilus cinctipedalis* Walker, 1864: 935. (Type locality: Australia)

*Nippoptilia minor* Hori, 1933. (Type locality: Japan)

*Trichoptilus eochrodes* Meyrick, 1935. (Type locality: Hunan, China)

*Oxyptilus caryornis* Meyrick, 1935. (Type locality: Tien-Mu-Shan, China)

Material: 1 ♀, Kirirom Nat. Res., 11° 18'N, 104° 05'E, h-650 m, 15 / 17-XII-2007, S. Murzin.

Distribution: Australia, Japan, Palau, China, Thailand, Cambodia.

### *Nippoptilia vitis* (Sasaki, 1913)

*Stenoptilia vitis* Sasaki, 1913: 3. (Type locality: Japan)

*Oxyptilus formosanus* Matsumura, 1931: No. 2061. (Type locality: Japan)

Material: 2 ♂♂, 3 ♀♀, Pailin, h-200 m, 11 / 16-V-2009, S. Murzin.

Distribution: Japan, Korea, Nepal, India, Thailand, Taiwan, Cambodia.

### *Exelastis pumilio* (Zeller, 1873)

*Mimesoiptilus pumilio* Zeller, 1873: 324. (Type locality: Texas, USA)

*Marasmarcha liophanes* Meyrick, 1886: 19. (Type locality: Reunion Island)

*Mimaesoptilus gilvidorsis* Hedemann, 1896: 8 (not Zeller, 1877). (Type locality: Virgin Islands, St. Croix)

Material: 1 ♂, 1 ♀, Kirirom Natural Resources, 11° 18'N, 104° 05'E, h-650 m, 9 / 16-XII-1999; 2 ♂♂, 1 ♀, 14 / 20-XI-2007; 23 exemplars, 5 / 17-XII-2007; 3 exemplars, Trapeang Rung, 80 km SE Koh-Khon, h-10 m, 20 / 29-XII-2008; 1 ♀, 15 km SE Tuol Kruos, 11° 11'N, 104° 10'E, h-100 m, 20 / 28-XII-2009; 2 exemplars, Sihanoukville, 10° 37'N, 103° 26'E, 29-31-XII-1999; 62 exemplars, 1 / 31-XII-2008, 17 exemplars, 1 / 13-I-2009; 5 exemplars, 6-10-V-2009, S. Murzin; 1 ♀, Kep prov., Kep Treetop Bungalar, 6-XII-2010, O. Kosterin.

Distribution: Nepal, Cambodia, Philippines, New Guinea, Tchad, Gambia, Tanzania, Mali, Zimbabwe, Swaziland, Rep. S. Africa, Seychelles, Reunion Island, Madagascar, Nigeria, Kenya, USA., Argentina, Brazil, Ecuador, Bolivia, Colombia, Surinam, Costa Rica, Cuba, Puerto Rico, Guadeloupe, Mexico, Jamaica, Virgin Islands, Fatu Hiva, Guadalupe.

### *Exelastis atomosa* (Walsingham, 1885)

*Aciptilia atomosa* Walsingham, 1885: 885. (Type locality: India)

Material: 1 ♂, Kirirom Nat. Res., 11° 18'N, 104° 05'E, h-650 m, 15 / 17-XII-2007, S. Murzin; 1 ♂, 150 km SW Phnom Penh, Elephant Mountains Staeng Chral, h-300 m, 24-III-2002, A. Sochivko.  
Distribution: India, Nepal, Cambodia, Ethiopia, Tanzania, Kenya, Swaziland, Madagascar.

*Parafuscoptilia tabuliformis* Hao & Li, 2005.

*Parafuscoptilia tabuliformis* Hao & Li, 2005:36. (Type locality: Fujian Prov., China)

Material: 23 exemplars, Kirirom Natural Resources, 11° 18'N, 104° 05'E, h-650 m, 15 / 17-XII-2007, S. Murzin.

Distribution: SE China, Cambodia.

*Stenoptilodes taprobanes* (Felder & Rogenhofer, 1875)

*Amblyptilia taprobanes* Felder & Rogenhofer, 1875: plate 140, fig. 54. (Type locality: Sri Lanka)

*Platyptilia brachymorpha* Meyrick, 1888: 240. (Type locality: India)

Material: 1 ♂, 2 ♀♀, Kirirom Natural Resources, 11° 18'N, 104° 05'E, h-650 m, 5 / 17-XII-2007; 10 exemplars, Sihanoukville, 10° 37'N, 103° 26'E, 1 / 31-XII-2008, S. Murzin.

Distribution: Europe, Turkey, Indonesia, Sri Lanka, Thailand, Cambodia, India, New Guinea, Australia, Tchad, Sao Tome, Cote d'Ivoire, Nigeria, Tanzania, Kenya, Madagascar, Seychelles, USA, Paraguay, Bolivia.

*Sphenarches anisodactylus* (Walker, 1864)

*Oxyptilus anisodactylus* Walker, 1864: 934. (Type locality: Sri Lanka)

*Pterophorus diffusalis* Walker, 1864: 945. (Type locality: Australia)

*Sphenarches synophrys* Meyrick, 1886: 17. (Type locality: New Hebrides)

Material: 1 ♂, Sihanoukville, 10° 37'N, 103° 26'E, 1 / 31-XII-2008; 2 ♀♀, 1 / 13-I-2009, S. Murzin; 1 ♀, Rattanakiri Prov., Bang Lung, 13° 44'N, 107° 02'E, h-350 m, 5 / 6-VI-2013, O. Kosterin; 2 ♀♀, Pailin, h-200 m, 11 / 16-V-2009, S. Murzin.

Distribution: Nepal, Japan, China, Sri Lanka, India, Taiwan, Thailand, Cambodia, Vietnam, Malaysia, Indonesia, Solomon Islands, New Guinea, Bismarck Islands, Australia, Cameroun, Seychelles, Reunion Island, Madagascar, Kenya, Tanzania, Zaire, Gambia, Guinea, Nigeria, Tchad, Malawi, Swaziland, Cote d'Ivoire, Ghana, USA., Brazil, Dominica, Grenada, Panama, Virgin Islands, Bahamas, St. Thomas, Puerto Rico, Peru, Paraguay, Fiji Islands, New Hebrides, Tonga Islands, New Caledonia, Palau, Bonin Island, Guam.

*Sphenarches zanclistis* (Meyrick, 1905)

*Oxyptilus zanclistis* Meyrick, 1905: 582. (Type locality: Myanmar [Burma])

Material: 1 ♂, Kirirom Natural Resources, 11° 18'N, 104° 05'E, h-650 m, 15 / 17-XII-2007; 2 ♂♂, Pailin, h-200 m, 11 / 16-V-2009, S. Murzin.

Distribution: Nepal, India, Sri Lanka, Thailand, Cambodia, Myanmar, Indonesia, Australia.

*Buckleria paludum* (Zeller, 1841)

*Pterophorus paludum* Zeller, 1839: 277. (Type locality: Germany)

*Trichoptilus paludicola* Fletcher, 1907: 20. (Type locality: Sri Lanka)

*Pselnophorus dolichos* Matsumura, 1931: No. 2071. (Type locality: Japan)

Material: 5 exemplars, 15 km SE Tuol Kruos, 11° 11'N, 104° 10'E, h-100 m, 20 / 28-XII-1999; 1 ♀, Sihanoukville, 10° 37'N, 103° 26'E, 29 / 31-XII-1999; 31 exemplars, Kirirom Natural Resources, 11° 18'N, 104° 05'E, h-650 m, 15 / 17-XII-2007; 9 exemplars, Trapeabg Rung, 80 km SE Koh-Khon, h-10 m, 20 / 29-XII-2008; 9 exemplars, Sihanoukville, 10° 37'N, 103° 26'E, 1 / 31-XII-2008, 2 exemplars, 1 / 13-I-2009; 3 exemplars, Centr. Caradamon Mts., 30 km N Trapeabg Rung, 10 km E Tatai, h-350 m, 4 / 10-II-2010, S. Murzin.

Distribution: Europe, Iran, south of western Siberia, the Far East of Russia, Japan, India, Sri Lanka, Thailand, Cambodia.

*Megalorhipida leucodactyla* (Fabricius, 1794)

*Pterophorus leucodactylus* Fabricius, 1794: 346. (Type locality: Virgin Islands)

*Pterophorus oxydactylus* Walker, 1864: 944. (Type locality: Sri Lanka)

*Trichoptilus centetes* Meyrick, 1886: 16. (Type locality: New Guinea)

*Trichoptilus adelphodes* Meyrick, 1887: 266. (Type locality: Australia)

*Trichoptilus ralumensis* Pagenstecher, 1900: 239. (Type locality: Bismarck Islands)

Material: 1 ♂, Pailin, h-200 m, 11 / 16-V-2009, S. Murzin.

Distribution: Spain, Morocco, Israel, Lebanon, Jordan, Saudi Arabia, Yemen, Dubai, Oman, Iran, Pakistan, Somalia, Congo, Nigeria, Cote d'Ivoire, Cameroun, Tchad, Liberia, Sierra Leone, Gambia, Nigeria, Cape Verde Islands, Kenya, Tanzania, Swaziland, Rep. S. Africa, Uganda, Madagascar, Seychelles, Reunion, Mauritius, Ethiopia, China, Taiwan, Vietnam, Thailand, Malaysia, India, Sri Lanka, Maldives, New Guinea, Solomon Islands, Australia, USA, Argentina, Chile, Paraguay, Brazil, Ecuador, Colombia, Panama, French Guyana, Mexico, Peru, Venezuela, Bahamas, Jamaica, St. Thomas, St. Vincent, Puerto Rico, Virgin Islands, Suriname, Galapagos Islands, Mariana Islands, Wake Island, Marshall Islands, Gilbert Islands.

*Trichoptilus regalis* (Fletcher, 1909)

*Oxyptilus regalis* Fletcher, 1909: 25. (Type locality: Sri Lanka)

*Oxyptilus chordites* Meyrick, 1913: 106. (Type locality: Sri Lanka)

Material: 1 ♂, Pailin, h-200 m, 11 / 16-V-2009, S. Murzin.

Distribution: China, India, Sri Lanka, Thailand, Cambodia, Indonesia.

*Adaina microdactyla* (Hübner, [1813])

*Alucita microdactyla* Hübner, [1813]: pl. 5, figs. 26, 27. (Type locality: Europe)

*Pterophorus carphodactylus* Stephens, 1834: 374. (Type locality: England)

*Adaina montivola* Meyrick, 1937: 170. (Type locality: China)

*Adaina subflavescens* Meyrick, 1930: 568. (Type locality: Indonesia)

Material: 6 ♂♂, 5 ♀♀, Phnom-Bokor Natural Resources, 10° 38'N, 104° 05'E, h-550 m, 25-XI / 6-XII-1999, M. & S. Murzin; 3 exemplars, Kirirom Natural Resources, 11° 18'N, 104° 05'E, h-650 m, 15 / 17-XII-2007; 2 ♂♂, 9 / 16-XII-1999; 1 ♂, Sihanoukville, 10° 37'N, 103° 26'E, 1 / 31-XII-2008; 1 ♀, 1 ♀, Trapeabg Rung, 80 km SE Koh-Khon, h-10 m, 20 / 29-XII-2008; 13 exemplars, 15 km SE Tuol Kruos, 11° 11'N, 104° 10' E, h-100 m, 20 / 28-XII-2009; 6 exemplars, Sihanoukville, 10° 37'N, 103° 26'E, 1 / 13-I-2009; 50 exemplars, 29 / 31-XII-1999, S. Murzin.

Distribution: Europe, Russia (European part), Turkey, Israel, Iran, Georgia, Nepal, China, Japan, Madagascar, Vietnam, Indonesia, Philippines, Taiwan, New Guinea, Solomon Islands.

*Pterophorus albidus* (Zeller, 1852)

*Aciptilus albidus* Zeller, 1852: 397. (Type locality: South Africa)

*Alucita endogramma* Meyrick, 1922: 549. (Type locality: Fiji)

*Alucita endophaea* Meyrick, 1930: 567. (Type locality: Mozambique)

*Aciptilia suffiata* Yano, 1963: 200. (Type locality: Okinawa, Japan)

Material: 1 ♀, Pailin, h-200 m, 11 / 16-V-2009, S. Murzin.

Distribution: Japan, Thailand, Cambodia, Vietnam, Indonesia, Philippines, Kei, Irian Jaya, Australia, Fiji Islands, South Africa, Gambia, Mozambique, Nigeria, Kenya, Malawi, Tanzania, Congo, Uganda, Cameroon, Tchad, Cote d'Ivoire, Zimbabwe, Zanzibar, Madagascar, Reunion Island.

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\*P. U.  
Altai State University  
Lenina 61  
Barnaul, 656049  
RUSIA / RUSSIA  
E-mail: petrust@mail.ru

V. K.  
Moscow Society of Nature Explorers  
Malaya Filevskaya str., 24/1, app. 20  
Mosco, 121433  
RUSIA / RUSSIA  
E-mail: vasko-69@mail.ru

\*Autor para la correspondencia / Corresponding author

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